

Title (en)

Analysing and processing photoplethysmographic signals by wavelet transform analysis

Title (de)

Analyse und Verarbeitung von photoplethysmographischen Signalen durch Wellentransformationsanalyse

Title (fr)

Analyse et traitement de signaux photoplethysmographiques par analyse de transformées par ondelettes

Publication

**EP 2428159 B1 20160420 (EN)**

Application

**EP 11006415 A 20040227**

Priority

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- GB 0304413 A 20030227
- GB 0403066 A 20040212
- GB 0305168 A 20030307

Abstract (en)

[origin: EP2428159A2] A method of measuring physiological parameters, comprising: using a signal acquisition means to obtain a pulse oximetry signal; decomposing the pulse oximetry signal by wavelet transform analysis; identifying a primary band and a secondary band on a transform surface constructed by the wavelet transform analysis; and interpreting the secondary band to reveal information pertaining to the physiological parameters causing the primary band.

IPC 8 full level

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**G06F 17/14** (2006.01); **G06K 9/00** (2006.01)

CPC (source: EP US)

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**A61B 5/14551** (2013.01 - EP US); **A61B 5/14552** (2013.01 - US); **A61B 5/4818** (2013.01 - EP US); **A61B 5/6826** (2013.01 - EP US);  
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Cited by

US9820698B2; WO2015188079A1; WO2016071872A1

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EP 1628571 B1 20110824; EP 2428159 A2 20120314; EP 2428159 A3 20120725; EP 2428159 B1 20160420; JP 2007515977 A 20070621;  
JP 4526532 B2 20100818; US 10182764 B2 20190122; US 2006258921 A1 20061116; US 2013046156 A1 20130221;  
US 2013046157 A1 20130221; US 2013046160 A1 20130221; US 2013046161 A1 20130221; US 2013046184 A1 20130221;  
US 2013046185 A1 20130221; US 2013046186 A1 20130221; US 2013046187 A1 20130221; US 2013046188 A1 20130221;  
US 2015366511 A1 20151224; US 8255029 B2 20120828; US 9192336 B2 20151124; US 9198616 B2 20151201; US 9220459 B2 20151229;  
US 9220460 B2 20151229

DOCDB simple family (application)

**GB 2004000808 W 20040227;** AT 04715386 T 20040227; EP 04715386 A 20040227; EP 11006415 A 20040227; JP 2006502334 A 20040227;  
US 201213590095 A 20120820; US 201213590100 A 20120820; US 201213590102 A 20120820; US 201213590103 A 20120820;  
US 201213590105 A 20120820; US 201213590108 A 20120820; US 201213590111 A 20120820; US 201213590112 A 20120820;  
US 201213590120 A 20120820; US 201514749481 A 20150624; US 54743004 A 20040227